	Application No.	Applicant(s)
Notice of Allowability	10/822,479	WENDLAND ET AL.
	Examiner	Art Unit
	Tatyana Zalukaeva	1713
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this	application. If not included tion will be mailed in due course. THIS
1. This communication is responsive to <u>04/12/2004</u> .		
2. The allowed claim(s) is/are <u>1-11</u> .		
3. $\square$ The drawings filed on $\_\_\_$ are accepted by the Examin	er.	
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority to a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents all International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	ve been received. ve been received in Application No	·
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which gives		
6. CORRECTED DRAWINGS ( as "replacement sheets") mu	ust be submitted.	
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) including changes required by the attached Examiner Paper No./Mail Date	r's Amendment / Comment or in th	e Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the dra the header according to 37 CFR 1.1	wings in the front (not the back) of 21(d).
7. DEPOSIT OF and/or INFORMATION about the dep- attached Examiner's comment regarding REQUIREMENT		
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 04/2004  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.  Interview Summa Paper No./Mail 7.  Examiner's Ame	Date

Application/Control Number: 10/822,479

Art Unit: 1713

## **EXAMINER'S REASONS FOR ALLOWANCE**

## Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Rewrite the abstract of the disclosure as follows: -----Abstract

Photoiniferters for controlled radical polymerizations and telechelic copolymers comprising polymerized units of one or more free radically (co)polymerizable monomers having a first azalactone terminal group and a second dithiocarbamate terminal group are described.----

In claim 1 line 3 of the claim replace the "an" ---- in front of the words "first azlactone terminal group" by ----a---.

## Allowable Claims

2. Claims 1-11 are allowed over the prior art of record.

## Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: the closest prior art of record is an article "Polyazlactones", Encyclopedia of Polymer Science and Engineering, (1988), pp. 558-570, Vol. 11, 2-nd Edition, John Wiley and Sons

Application/Control Number: 10/822,479

Art Unit: 1713

(hereinafter referred to as Encyclopedia), S. M. HEILMANN, "Chemistry and Technology of z-Alkenyl Azlactones", Journal of Polymer Science:

Pad A: Polymer Chemistry, (2001), pp. 3655-3677, Vol. 39, John Wiley and Sons, Inc. and "T. Doi, "Radical Polymerization of Methyl Acrylate by Use of Benzyl N N-Diethyldithiocarbamate in Combination with Tetraethylthiuram Disulfide as a Twocomponent Inferter", Journal of Polymer Science: Part A: Polymer Chemistry, (November 30, 1994). pp. 291 1-2918, Vol. 32, No. 15, and U.S. Patent 6,680,362 and 6,677,413. Encyclopedia teaches azolactones used for production of polyazolactones, emphasizing that the class of azolactones was discovered in 1880s (page 559). Azolactone is presented as a starting compound of scheme 2 of page 558. However, Encyclopedia fails to disclose the group attached to a linking group Q, as defined by structure I in claim 1, and fails to disclose the use of these compounds as iniferters to produce telechelic polymers. Heilmann teaches the use of azlactones as iniferters for polymerization; Doi teaches the use of Benzyl N N-Diethyldithiocarbamate in Combination with Tetraethylthiuram Disulfide as a two-component Inlferter. However, none of the cited references alone or in combination suggests the telechelic polymer having two different terminal groups, namely azlactone group as the first terminal group and dithiocarbamate as the second terminal group.

No structure found in the Registry, Belstein or MARPAT files resembles any one of Applicants' structures presented by generic formula I in claim s 5 and 6 and specified as examples in the specification.

Art Unit: 1713

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tatyana Zalukaeva whose telephone number is (571) 272-1115. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tatyana Zalukaeva Primary Examiner Art Unit 1713

Talukas

July 6, 2004